



# RIS-2795-RST issue 2.3 Track to Train RFID Compatibility

## Background

RIS-2795-RST sets out requirements for Radio Frequency Identification (RFID) compatibility between train and track, including the onboard, trackside and architecture interface as well as a list of permitted application codes allowed to be entered and locked into RFID beacons.

## What is it about?

This document sets out the process for managing data structures for new RFID applications and the change control process for existing applications. Industry governance for these data structures is through the approval of RIS-2795-RST in which they are documented, in accordance with the Railway Group Standards Code and Manual.

Application codes for various rolling stock functions, such as Selective Door Operation (SDO) and Automatic Power Control (APCO) are set out in appendices in accordance with a common data format for RFID beacons that are placed in the track, giving compatibility with onboard RFID readers. The application codes that are set out can be used in conjunction with other onboard rolling stock features, such as condition or environmental data, and supports the correct and safe operation of a vehicle.

## What has changed?

RIS-2795-RST issue 2.3 is a limited change release and sets out a new application code for Automatic Power Mode Control (APMC). This application code supports stakeholders in automating some power mode features associated with multi-mode trains, such as noise and exhaust limiting, and can also be used to determine where certain infrastructure features are located such as a permanently earthed section (PES) of the overhead contact line (OCL).

## What are the benefits?

The setting out of a new application code for APMC will lead to a reduction in the driver's workload where they may usually have to read trackside signs to understand the locations of unwired section or PES', resulting in less of a distraction for the driver and provides industry with the associated safety benefit.

## Who is it for?

This standard update is intended for:

- Railway undertakings (RUs)
- Infrastructure managers (IMs)
- Vehicle manufacturers
- Industry suppliers of RFID beacons